

I Claim:

## 1. A circuit configuration, comprising:

terminals for receiving at least two digital signals;

a calibration circuit connected to said terminals and having outputs outputting at least two digital output signals each derived from one of the digital signals, said calibration circuit effects a temporal control of a switching edge of one of the two digital output signals using a control value, said calibration circuit containing a storage circuit for storing the control value; and

a comparison circuit connected to said outputs and having a terminal for a comparison signal indicating that one of the two digital output signals has a switching edge first relative to another of the two digital output signal;

said calibration circuit has a control input through which the control value can be set using a state of the comparison signal of said comparison circuit.

2. The circuit configuration according to claim 1, wherein said terminal for the comparison signal of said comparison circuit is connected to said control input of said calibration circuit.

3. The circuit configuration according to claim 1, wherein the comparison signal indicates with an active state that one of the two digital output signals has a switching edge first relative to the other of the two digital output signals, and said comparison circuit is embodied in such a way that the comparison signal has a periodic profile in the active state.

4. The circuit configuration according to claim 3, wherein the two digital output signals have a periodic profile, and the comparison signal of said comparison circuit in the active state has a frequency of that output signal whose switching edges temporally precede corresponding switching edges of the other one of the two digital output signals.

5. The circuit configuration according to claim 1, wherein said comparison circuit has a bistable multivibrator.

6. The circuit configuration according to claim 1, wherein said calibration circuit has a circuit performing at least one of a filtering function and an integrating function and is connected to said terminal for the comparison signal of said comparison circuit.

7. The circuit configuration according to claim 1, wherein said calibration circuit contains a delay circuit having an

input connected to one of said terminals for the digital signals, said delay circuit setting a delay of a switching edge of one of the digital signals, and said delay circuit has an outputs connected to one of said outputs of said calibration circuit.

8. The circuit configuration according to claim 7, wherein said delay circuit contains delay elements that can be set digitally.

9. The circuit configuration according to claim 7, wherein said delay circuit contains delay elements that can be set in an analog manner.

10. The circuit configuration according to claim 1, including an inverter circuit disposed and connected between said calibration circuit and said terminals.

11. A measuring device, comprising:

a circuit configuration, including:

terminals for receiving at least two digital signals;

a calibration circuit connected to said terminals and having outputs for at least two digital output signals

each derived from one of the digital signals, said calibration circuit effects temporal control of a switching edge of one of the two digital output signals using a control value, said calibration circuit containing a storage circuit for storing the control value; and

a comparison circuit connected to said outputs and having a terminal for a comparison signal which indicates that one of the two digital output signals has a switching edge first relative to another of the two digital output signal;

said calibration circuit has a control input through which the control value can be set using a state of the comparison signal of said comparison circuit.

12. A test device, comprising:

a circuit configuration, including:

terminals for receiving at least two digital signals;

a calibration circuit connected to said terminals and having outputs for at least two digital output signals each derived from one of the digital signals, said

calibration circuit effects temporal control of a switching edge of one of the two digital output signals using a control value, said calibration circuit containing a storage circuit for storing the control value; and

a comparison circuit connected to said outputs and having a terminal for a comparison signal which indicates that one of the two digital output signals has a switching edge first relative to another of the two digital output signal;

said calibration circuit has a control input through which the control value can be set using a state of the comparison signal of said comparison circuit.